Ahmad Gazali

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Education and Coursework

San Jose State University — San Jose, CA
Bachelor of Science in Computer Engineering — *August 2021 – May 2025*

- **Relevant Courses** - Algorithms and Data Structure Design, Object-Oriented Programming, Discrete Mathematics, Information Security, Digital Design I, Assembly Language Programming

Technical Skills

Languages - TypeScript, JavaScript, HTML/CSS, Python, SQL, C/C++
Libraries/ Frameworks - Next.JS, React.JS, Tailwind CSS, Selenium, tRPC, RESTful, OAuth, Express.JS, Three.JS, Node.JS, Redux, Flask, React Native, Expo, Material UI
Developer Tools - GitHub, Git, PostgreSQL, MySQL, MongoDB, Vercel, Google Cloud Platform, Prisma, Amazon Web Services, VS Code, Visual Studio, Eclipse
Misc. - Debugging, Troubleshooting, Web Scraping, Automation, Management Skills, Figma, Spline, Blender, Adobe Creative Suite, Microsoft Office Suite, Fluent in Arabic and English

Experience

Lead Front End Developer — April 2024
HackDavis 2024 Hackathon — *Davis, CA*

- Led the front-end development of a Passive Persuasive Language Detector, a Chrome extension that identifies persuasive language on webpages, enhancing user awareness and interaction with digital content
- Engineered a custom HTML parser using a DFS pre-order traversal algorithm to efficiently identify and process text-containing tags at the top level
- Implemented a MutationObserver to dynamically track and update DOM changes in real-time, enabling the extension to highlight persuasive language even in dynamic web environments like social media feeds and AJAX-loaded pages
- Resolved complex race conditions and prevented recursive back-end API calls during DOM mutations by employing a promise queue with an event listener/subscriber to empty the queue
- Implemented a user-friendly interface with customization of text highlights

Software Engineer Intern — January 2024 – Present
Noblis — *Remote*

- Designed and implemented process workflows for 3 major projects, enhancing project efficiency by standardizing procedures
- Developed Microsoft Forms for event surveys, integrating responses with MS Power Automate to streamline data collection and automate follow-up workflows
- Leveraged Microsoft Power Apps to build a user-friendly, searchable database for university departments
- Designed and deployed multiple public-facing websites using HTML and CSS, focusing on user experience, on page SEO, and compliance with web standards

Front End Developer — August 2023 – Present
ACM-CS Club at San Jose State University — *San Jose, CA*

- Contributing to the design and development of the official ACM-CS at SJSU website using Next.JS to build a dynamic and responsive web application serving 1000+ members
- Collaborating with a team of 20 developers to develop and seamlessly integrate reusable React components
- Communicated with the back end team to develop MongoDB schema and integrate the Express.JS REST API with Next.JS
- Regularly managed Git branches and made pull requests to production, contributing to the continuous development and integration of the web application
- Generated 15+ reusable React.JS form components and built a form for event creation on the administrator dashboard, incorporating front end validation schema and managing error and loading states

Full Stack Developer — June 2023 – August 2023
AR/VR Club at San Jose State University — *San Jose, CA*

- Spearheaded the creation of the website and content management web application for the AR/VR Club at SJSU using Next.JS 13, Next.JS Pages Router, Tailwind CSS, tRPC, Prisma, PlanetScale, and Vercel services/infrastructure serving 350+ members
- Lead the development of a tRPC API using Prisma ORM to interface with a PlanetScale MySQL database that stores data from the management system
- Engaged in debugging and optimizing React.JS components and CSS files, and compressing graphical assets, enhancing page speed by at least 30%
- React.JS Lazy Loading and React.JS Suspense used to optimize page loading times
- Designed intuitive UX/UI wireframes and high-fidelity prototypes in Figma, driving a cohesive visual identity and enhancing user engagement
- Set up a user-friendly content management web application integrated with the tRPC API, enabling board members to manage content and add components, reducing the overall need for technical intervention
- Optimized the website map, implementing Search Engine Optimization (SEO) strategies to significantly enhance search visibility and organic traffic
- Coordinated and communicated with the club's leadership to ensure the website's content and design aligns with the club's mission and goals

Software Engineer Intern — December 2022 – January 2023
Infinite Options — *San Jose, CA*

- Refactored 1000+ lines of code for a complex web application by developing and adhering to coding standards and patterns including DRY, strategy pattern, reusable components, and consistent formatting rules, significantly improving code quality and maintainability
- Implemented loosely coupled API services with clearly defined interfaces, emphasizing modularity and simplicity
- Demonstrated strong troubleshooting skills using browser debugging tools to identify and resolve bugs and performance issues in React.JS components